To:USPTO

Atty Dkt. No.: CLON-037CON USSN: 09/839,696

## REMARKS

In view of the following remarks, the Examiner is respectfully requested to withdraw the rejections and allow claims 14, 15, 17, 39-42 and 44, the only claims pending and currently under examination in this application.

Claims 14 and 44 have been amended to include the limitation that the step of conjugating aspartic acid to the oxirane-agarose occurs at about 80°C for 4 hours. Support for this amendment can be found in original Claim 16 and in the specification at page 9, lines 8-10.

As the above amendments introduce no new matter, their entry by the Examiner is respectfully requested.

## Claim Rejections - 35 USC §102

Claims 14-17, 39-42 and 44 are rejected under 35 U.S.C. § 102 (b) as being anticipated by Mantovarra et al. (Blotechnology and Applied Biochemitstry, 1991, 13:315-322) and Porath et al. (US 3,853,708).

As stated in MPEP §2131:

"A claim is anticipated only if <u>sach and every element</u> as set forth in the claim is found, either expressly or inherently described, In a slingle prior art reference, " Verdegael Bros v Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051. 1053, 1664. Cir. 1847.

The subject invention is claims a method for synthesizing carboxymethylated aspartate agarose chelating resin including the steps of: (a) forming oxirane-agarose; (b) conjugating aspartic acid to the oxirane-agarose to produce aspartate agarose in which the reaction is carried out at 80°C for 4 hours; (c) carboxymethylating the aspartate agarose to produce carboxymethylated aspartate agarose; and (d) complexing the carboxymethylated aspartate agarose with a transition metal metal ion other than Ca<sup>2+</sup> to produce a complex that offers two available valencies.

The Examiner asserts that Mantovarra et al. teaches all of the steps of the claimed invention, citing Porath et al. as demonstrating that treating Sephanose with epicholorhydin (as disclosed in Mantovarra et al.) produces an oxirane ring (step (a) of

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the claimed invention.

As indicated above, the Applicants have amended Claims 14 and 44 to include the limitation that the aspartic acid/oxirane ring conjugating step (b) is carried out at 80°C for 4 hours (original claim 16). This limitation is not taught in Mantovarra et al. (nor in Porath et al.). Indeed, in item 4 of the Office Action the Examiner states that the conjugation step of Mantovarra et al. is carried out at room temperature. As stated in the specification of the subject application (page 4, lines 26-28) "[t]he improvement [over previous methods] includes particular conditions for oxirane ring formation, temperature controlled conjugation of aspartic acid to the oxirane agarose, and high lonic strength washing to remove extraneously bund metals" (emphasis added).

Therefore, because Mantovarra et al. and Porath et al. fail to teach each and every element of the claimed invention, withdrawal of this rejection is respectfully requested.

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## CONCLUSION

in view of the amendments to the claims and the remarks above, the Applicants consider this application to be in good and proper form for allowance and the Examiner is respectfully requested to pass this application to issuance.

The Commissioner is hereby authorized to charge any underpayment of fees associated with this communication, including any necessary fees for extensions of time, or credit any overpayment to Deposit Account No. 50-0815, order no. CLON-037CON

Respectfully submitted.

BOZICEVIC, FIELD & FRANCIS LLP

8.23.05

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BOZICEVIC, FIELD & FRANCIS I I P 1900 University Avenue, Suite 200 East Palo Alto, CA 94303 Telephone: (650) 327-3400 Facsimile: (650) 327-3231

Bret F Field

Registration No. 37,620

David C. Scherer, Ph.D. Registration No. 56,993

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